DETAILED ESTIMATE

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Providing new borewlls and CC roads, drains developments in Rachenahalli and other adjusted layout

								Estimation Cost.Rs	19900000.00
Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	New Drain								
	Anganavadi School Cross Road	Cum	2	100.00	0.90	1.05	189.00		
	Govt School Road	Cum	1	144.00	0.90	1.05	136.08		
	Near Ganesha Temple Cross Road	Cum	1	55.00	0.90	1.05	51.98		
	Near Ashwath katte Cross Road	Cum	2	109.80	0.90	0.75	148.23		
	Culvert	Cum	4	6.00	2.00	1.10	52.80		
	Desilt								
	Anganavadi School Cross Road	Cum	2	25.00	0.60	0.75	22.50		
	Govt School Road	Cum	1	157.00	0.60	0.75	70.65		
	Ganesha temple to Main Road	Cum	1	128.00	0.60	0.75	57.60		
	Ganesha temple Opposite Road	Cum	1	26.00	0.60	0.75	11.70		
	Near Ganesha Temple Cross Road	Cum	1	35.00	0.60	0.75	15.75		
	Cross Road	Cum	1	167.00	0.60	0.75	75.15		
	Cross Road	Cum	1	113.00	0.60	0.75	50.85		
	Basic rate							130.00	
	Area weightage 6%							7.80	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**882.29**	**207.60**	**183162.37**
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	Anganavadi School Cross Road	Cum	2	100.00	0.90	0.15	27.00		
	Govt School Road	Cum	1	144.00	0.90	0.15	19.44		
	Near Ganesha Temple Cross Road	Cum	1	55.00	0.90	0.15	7.43		
	Near Ashwath katte Cross Road	Cum	2	109.80	0.90	0.15	29.65		
	Culvert	Cum	4	6.00	2.00	0.15	7.20		
	Basic rate							5194.00	
	Area weightage 6%							311.64	
	Total						**90.71**	**5505.64**	**499422.11**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
3	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	Drain Bottom Raft								
	Anganavadi School Cross Road	Cum	2	100.00	0.75	0.15	22.50		
	Govt School Road	Cum	1	144.00	0.75	0.15	16.20		
	Near Ganesha Temple Cross Road	Cum	1	55.00	0.75	0.15	6.19		
	Near Ashwath katte Cross Road	Cum	2	109.80	0.75	0.15	24.71		
	Culvert	Cum	4	6.00	1.80	0.20	8.64		
	Wall								
	Anganavadi School Cross Road	Cum	4	100.00	0.15	0.75	45.00		
	Govt School Road	Cum	2	144.00	0.15	0.75	32.40		
	Near Ganesha Temple Cross Road	Cum	2	55.00	0.15	0.75	12.38		
	Near Ashwath katte Cross Road	Cum	4	109.80	0.15	0.75	49.41		
	Culvert	Cum	8	6.00	0.20	0.75	7.20		
	Basic rate							6670.00	
	Area weightage 6%							400.20	
	Total						**224.62**	**7070.20**	**1588090.65**
4	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum					208.78		
		kg	Steel assumed 60Kg/Cum of Concrete				12526.65		
		tonne					**12.53**		
	For Culvert	Cum					15.84		
		kg	Steel assumed 100Kg/Cum of Concrete				1584.00		
		tonne					**1.58**		
	Basic rate							68233	
	Area weightage 6%							4093.98	
	Total						**14.11**	**72326.98**	**1020580.70**
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Drain cover slab								
	Anganavadi School Cross Road	Sqm	2	100.00	0.75		150.00		
	Govt School Road	Sqm	1	144.00	0.75		108.00		
	Near Ganesha Temple Cross Road	Sqm	1	55.00	0.75		41.25		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Near Ashwath katte Cross Road	Sqm	2	109.80	0.75		164.70		
	Anganavadi School Cross Road	Sqm	2	25.00	0.90		45.00		
	Govt School Road	Sqm	1	157.00	0.90		141.30		
	Ganesha temple to Main Road	Sqm	1	128.00	0.90		115.20		
	Ganesha temple Opposite Road	Sqm	1	26.00	0.90		23.40		
	Near Ganesha Temple Cross Road	Sqm	1	35.00	0.90		31.50		
	Cross Road	Sqm	1	167.00	0.90		150.30		
	Cross Road	Sqm	1	113.00	0.90		101.70		
	Misssing Cover Slab	Sqm	3	0.90	0.60		1.62		
	Data rate							**2337.00**	
	Total						**1073.97**	**2337.00**	**2509867.89**
6	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Culvert cover Slab								
	Culvert	Sqm	4	6.00	1.80		43.20		
	Data rate							**5418.00**	
	Total						**43.20**	**5418.00**	**234057.60**
7	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.140- I.No.18.47) & Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)								
	Anganavadi School Cross Road	Cum	1	125.00	5.20	0.20	130.00		
	Govt School Road	Cum	1	157.00	5.50	0.20	172.70		
	Ganesha temple to Main Road	Cum	1	128.00	6.75	0.20	172.80		
	Ganesha temple Opposite Road	Cum	1	26.00	4.00	0.20	20.80		
	Ganesha temple Opposite	Cum	1	12.60	12.40	0.20	31.25		
	Near Ganesha Temple Cross Road	Cum	1	35.00	4.30	0.20	30.10		
	Cross Road	Cum	1	122.00	3.60	0.20	87.84		
	Cross Road	Cum	1	60.00	2.50	0.20	30.00		
	Cross Road	Cum	1	16.30	2.50	0.20	8.15		
	Cross Road	Cum	1	20.00	3.00	0.20	12.00		
	Cross Road	Cum	1	25.00	2.00	0.20	10.00		
	Near Ashwath katte Cross Road	Cum	1	109.80	6.50	0.20	142.74		
	Basic rate							899.00	
	Area weightage 6%							53.94	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**848.38**	**1022.74**	**867670.12**
8	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Anganavadi School Cross Road	Cum	1	125.00	5.20	0.15	97.50		
	Govt School Road	Cum	1	157.00	5.50	0.15	129.53		
	Ganesha temple to Main Road	Cum	1	128.00	6.75	0.15	129.60		
	Ganesha temple Opposite Road	Cum	1	26.00	4.00	0.15	15.60		
	Ganesha temple Opposite	Cum	1	12.60	12.40	0.15	23.44		
	Near Ganesha Temple Cross Road	Cum	1	35.00	4.30	0.15	22.58		
	Cross Road	Cum	1	122.00	3.60	0.15	65.88		
	Cross Road	Cum	1	60.00	2.50	0.15	22.50		
	Cross Road	Cum	1	16.30	2.50	0.15	6.11		
	Cross Road	Cum	1	20.00	3.00	0.15	9.00		
	Cross Road	Cum	1	25.00	2.00	0.15	7.50		
	Near Ashwath katte Cross Road	Cum	1	109.80	6.50	0.15	107.06		
	Road Strengthening For UGD Cut portion								
	Anganavadi School Cross Road	Cum	1	125.00	1.00	0.60	75.00		
	Govt School Road	Cum	1	157.00	1.00	0.60	94.20		
	Ganesha temple to Main Road	Cum	1	128.00	1.00	0.60	76.80		
	Ganesha temple Opposite Road	Cum	1	26.00	1.00	0.60	15.60		
	Near Ganesha Temple Cross Road	Cum	1	35.00	1.00	0.60	21.00		
	Cross Road	Cum	1	122.00	1.00	0.60	73.20		
	Cross Road	Cum	1	60.00	1.00	0.60	36.00		
	Cross Road	Cum	1	16.30	1.00	0.60	9.78		
	Cross Road	Cum	1	20.00	1.00	0.60	12.00		
	Cross Road	Cum	1	25.00	0.80	0.60	12.00		
	Near Ashwath katte Cross Road	Cum	1	109.80	1.00	0.60	65.88		
	Road Strengthening For water line Cut portion								
	Anganavadi School Cross Road	Cum	1	125.00	1.00	0.60	75.00		
	Govt School Road	Cum	1	157.00	1.00	0.60	94.20		
	Ganesha temple to Main Road	Cum	1	128.00	1.00	0.60	76.80		
	Ganesha temple Opposite Road	Cum	1	26.00	1.00	0.60	15.60		
	Near Ganesha Temple Cross Road	Cum	1	35.00	1.00	0.60	21.00		
	Cross Road	Cum	1	122.00	1.00	0.60	73.20		
	Cross Road	Cum	1	60.00	1.00	0.60	36.00		
	Cross Road	Cum	1	16.30	1.00	0.60	9.78		
	Cross Road	Cum	1	20.00	1.00	0.60	12.00		
	Cross Road	Cum	1	25.00	0.80	0.60	12.00		
	Near Ashwath katte Cross Road	Cum	1	109.80	1.00	0.60	65.88		
	Basic rate							41.00	
	Area weightage 6%							2.46	

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	5Km lead= (2*1.28*5)							12.80	
	Total						**1619.20**	**56.26**	**91096.39**
9	KSRB M400 Stone dust / Grit 4.75 mm to 0.075 mm For Road Strengthening For UGD Cut portion								
	Road Strengthening For UGD Cut portion								
	Anganavadi School Cross Road	Cum	1	125.00	1.00	0.30	37.50		
	Govt School Road	Cum	1	157.00	1.00	0.30	47.10		
	Ganesha temple to Main Road	Cum	1	128.00	1.00	0.30	38.40		
	Ganesha temple Opposite Road	Cum	1	26.00	1.00	0.30	7.80		
	Near Ganesha Temple Cross Road	Cum	1	35.00	1.00	0.30	10.50		
	Cross Road	Cum	1	122.00	1.00	0.30	36.60		
	Cross Road	Cum	1	60.00	1.00	0.30	18.00		
	Cross Road	Cum	1	16.30	1.00	0.30	4.89		
	Cross Road	Cum	1	20.00	1.00	0.30	6.00		
	Cross Road	Cum	1	25.00	0.80	0.30	6.00		
	Near Ashwath katte Cross Road	Cum	1	109.80	1.00	0.30	32.94		
	Road Strengthening For water line Cut portion								
	Anganavadi School Cross Road	Cum	1	125.00	1.00	0.30	37.50		
	Govt School Road	Cum	1	157.00	1.00	0.30	47.10		
	Ganesha temple to Main Road	Cum	1	128.00	1.00	0.30	38.40		
	Ganesha temple Opposite Road	Cum	1	26.00	1.00	0.30	7.80		
	Near Ganesha Temple Cross Road	Cum	1	35.00	1.00	0.30	10.50		
	Cross Road	Cum	1	122.00	1.00	0.30	36.60		
	Cross Road	Cum	1	60.00	1.00	0.30	18.00		
	Cross Road	Cum	1	16.30	1.00	0.30	4.89		
	Cross Road	Cum	1	20.00	1.00	0.30	6.00		
	Cross Road	Cum	1	25.00	0.80	0.30	6.00		
	Near Ashwath katte Cross Road	Cum	1	109.80	1.00	0.30	32.94		
	Basic rate							1000.00	
	Area weightage 6%							60.00	
	Total						**491.46**	**1060.00**	**520947.60**
10	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Road Strengthening For UGD Cut portion								
	Anganavadi School Cross Road	Cum	1	125.00	1.00	0.30	37.50		
	Govt School Road	Cum	1	157.00	1.00	0.30	47.10		
	Ganesha temple to Main Road	Cum	1	128.00	1.00	0.30	38.40		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Ganesha temple Opposite Road	Cum	1	26.00	1.00	0.30	7.80		
	Near Ganesha Temple Cross Road	Cum	1	35.00	1.00	0.30	10.50		
	Cross Road	Cum	1	122.00	1.00	0.30	36.60		
	Cross Road	Cum	1	60.00	1.00	0.30	18.00		
	Cross Road	Cum	1	16.30	1.00	0.30	4.89		
	Cross Road	Cum	1	20.00	1.00	0.30	6.00		
	Cross Road	Cum	1	25.00	0.80	0.30	6.00		
	Near Ashwath katte Cross Road	Cum	1	109.80	1.00	0.30	32.94		
	Road Strengthening For water line Cut portion								
	Anganavadi School Cross Road	Cum	1	125.00	1.00	0.30	37.50		
	Govt School Road	Cum	1	157.00	1.00	0.30	47.10		
	Ganesha temple to Main Road	Cum	1	128.00	1.00	0.30	38.40		
	Ganesha temple Opposite Road	Cum	1	26.00	1.00	0.30	7.80		
	Near Ganesha Temple Cross Road	Cum	1	35.00	1.00	0.30	10.50		
	Cross Road	Cum	1	122.00	1.00	0.30	36.60		
	Cross Road	Cum	1	60.00	1.00	0.30	18.00		
	Cross Road	Cum	1	16.30	1.00	0.30	4.89		
	Cross Road	Cum	1	20.00	1.00	0.30	6.00		
	Cross Road	Cum	1	25.00	0.80	0.30	6.00		
	Near Ashwath katte Cross Road	Cum	1	109.80	1.00	0.30	32.94		
	Basic rate							1888.00	
	Area weightage 6%							113.28	
	Total						**491.46**	**2001.28**	**983549.07**
11	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	Anganavadi School Cross Road	Sqm	1	125.00	5.20		650.00		
	Govt School Road	Sqm	1	157.00	5.50		863.50		
	Ganesha temple to Main Road	Sqm	1	128.00	6.75		864.00		
	Ganesha temple Opposite Road	Sqm	1	26.00	4.00		104.00		
	Ganesha temple Opposite	Sqm	1	12.60	12.40		156.24		
	Near Ganesha Temple Cross Road	Sqm	1	35.00	4.30		150.50		
	Cross Road	Sqm	1	122.00	3.60		439.20		
	Cross Road	Sqm	1	60.00	2.50		150.00		
	Cross Road	Sqm	1	16.30	2.50		40.75		
	Cross Road	Sqm	1	20.00	3.00		60.00		
	Cross Road	Sqm	1	25.00	2.00		50.00		
	Near Ashwath katte Cross Road	Sqm	1	109.80	6.50		713.70		
	Basic rate							6.00	
	Area weightage 6%							0.36	

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Total						**4241.89**	**6.36**	**26978.42**
12	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	Anganavadi School Cross Road	Cum	1	125.00	5.20	0.15	97.50		
	Govt School Road	Cum	1	157.00	5.50	0.15	129.53		
	Ganesha temple to Main Road	Cum	1	128.00	6.75	0.15	129.60		
	Ganesha temple Opposite Road	Cum	1	26.00	4.00	0.15	15.60		
	Ganesha temple Opposite	Cum	1	12.60	12.40	0.15	23.44		
	Near Ganesha Temple Cross Road	Cum	1	35.00	4.30	0.15	22.58		
	Cross Road	Cum	1	122.00	3.60	0.15	65.88		
	Cross Road	Cum	1	60.00	2.50	0.15	22.50		
	Cross Road	Cum	1	16.30	2.50	0.15	6.11		
	Cross Road	Cum	1	20.00	3.00	0.15	9.00		
	Cross Road	Cum	1	25.00	2.00	0.15	7.50		
	Near Ashwath katte Cross Road	Cum	1	109.80	6.50	0.15	107.06		
	Basic rate							5102.00	
	Area weightage 6%							306.12	
	Total						**636.28**	**5408.12**	**3441097.52**
13	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Anganavadi School Cross Road	Cum	1	125.00	5.20	0.15	97.50		
	Govt School Road	Cum	1	157.00	5.50	0.15	129.53		
	Ganesha temple to Main Road	Cum	1	128.00	6.75	0.15	129.60		
	Ganesha temple Opposite Road	Cum	1	26.00	4.00	0.15	15.60		
	Ganesha temple Opposite	Cum	1	12.60	12.40	0.15	23.44		
	Near Ganesha Temple Cross Road	Cum	1	35.00	4.30	0.15	22.58		
	Cross Road	Cum	1	122.00	3.60	0.15	65.88		
	Cross Road	Cum	1	60.00	2.50	0.15	22.50		
	Cross Road	Cum	1	16.30	2.50	0.15	6.11		
	Cross Road	Cum	1	20.00	3.00	0.15	9.00		
	Cross Road	Cum	1	25.00	2.00	0.15	7.50		
	Near Ashwath katte Cross Road	Cum	1	109.80	6.50	0.15	107.06		
	Basic rate							4916.00	

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Area weightage 6%							294.96	
	Total						**636.28**	**5210.96**	**3315647.87**
14	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.48, I. 9.4) PRED.SR 2012-13**								
		Each BW	2				2.00		
	Total						**2.00**	**1938.46**	**3877.00**
15	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **P. 46 / I. 9.1 PRED SR 2012-13**								
	0 to 50 m	Rmtr	2	50.00			**100.00**	**315.18**	**31518.00**
	50 to 100 m		2	50.00			**100.00**	**412.00**	**41200.00**
	100 to 150 m		2	50.00			**100.00**	**458.35**	**45835.00**
	150 to 200 m		2	50.00			**100.00**	**484.10**	**48410.00**
	200 to 250 m		2	50.00			**100.00**	**560.32**	**56032.00**
	250 to 300 m		2	50.00			**100.00**	**600.49**	**60049.00**
16	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty **P. iii, I No. 84 PRED SR 2012-13**								
		Rmtr	2	70.00			**140.00**	**1325.00**	**185500.00**
17	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of **GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 4 Sqm mm KPWD Electrical SR 2014-15**								
		Mtr	**2x2**	**270.00**			**1080.00**	**126.70**	**136836.00**
18	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00) **Page No. 558, Items No-3 BWSSB SR for 2014-15)**								
	(270/6)=45.00	Per Length	**2.00**	**45.00**			**90.00**	**88.00**	**7920.00**
19	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., **P No. 44 / I No. 6.6.6 KPWD Electrical SR 2014-15**								
		Each	**2.00**				**2.00**	**302.00**	**604.00**
20	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A **P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15**								
		Mtr	**2.00**	**30.00**			**60.00**	**140.40**	**8424.00**
21	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. **P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**								
		Mtr	**2.00**	**30.00**			**60.00**	**10.80**	**648.00**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
22	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) **P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15**								
	For Cutting Road Surface	Mtr	2.00	25.00			50.00	85.00	4250.00
23	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV **P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15**								
	40mm dia GI pipe	Mtr	2.00	4.00			8.00	345.00	2760.00
24	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15**								
	16Sqmm	No.	2.00				2.00	280.00	560.00
25	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit … The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, **(P No. 55, I No. 7.1) KPWD Electrical SR 2014-15**								
		No	2.00				2.00	2727.00	5454.00
26	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.**P No. 44 / I No. 6.7.2 KPWD Electrical SR 2014-15**								
	32 Amps	No.	2x6				12.00	180.00	2160.00
27	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. **5-32Amps Group A TPN P No. 47 / I No.6.16.5 KPWD SR 2014-15**								
		No	2.00				2.00	1547.00	3094.00
28	Fabricating supplying and mounting MS box made out … SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete **P.No. 57, I. No. 6.41.2 KPWD Electrical SR 2014-15**								
	16SWG	Sq.Cm	2x2	120.00	60.00		28800.00		
			2.00	360.00	25.00		18000.00		
							46800.00	0.33	15444.00
29	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. **Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil**								
		Cum	2.00	750.00	0.60	0.75	675.00		
							675.00	188.00	126900.00
30	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.15 item No.3.4.2 b PRED SR 2012-13.**								
	75 mm dia 6 KSC PVC pipe	Rmtr	2.00	750.00			1500.00		
							1500.00	123.00	184500.00
31	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs **Page No. 3 / Item No. 1.6 / PRED SR 2012-13**								
		Cum	Qty. Vide Item No. 29				675.00	61.00	41175.00
	Basic Rate	61.00							
32	Code No.: 3008 Providing 250mm dia PVC Pipe 10kg/cm **Page No. XXXV, Sl No. 892 PWD SR 2018-19**								

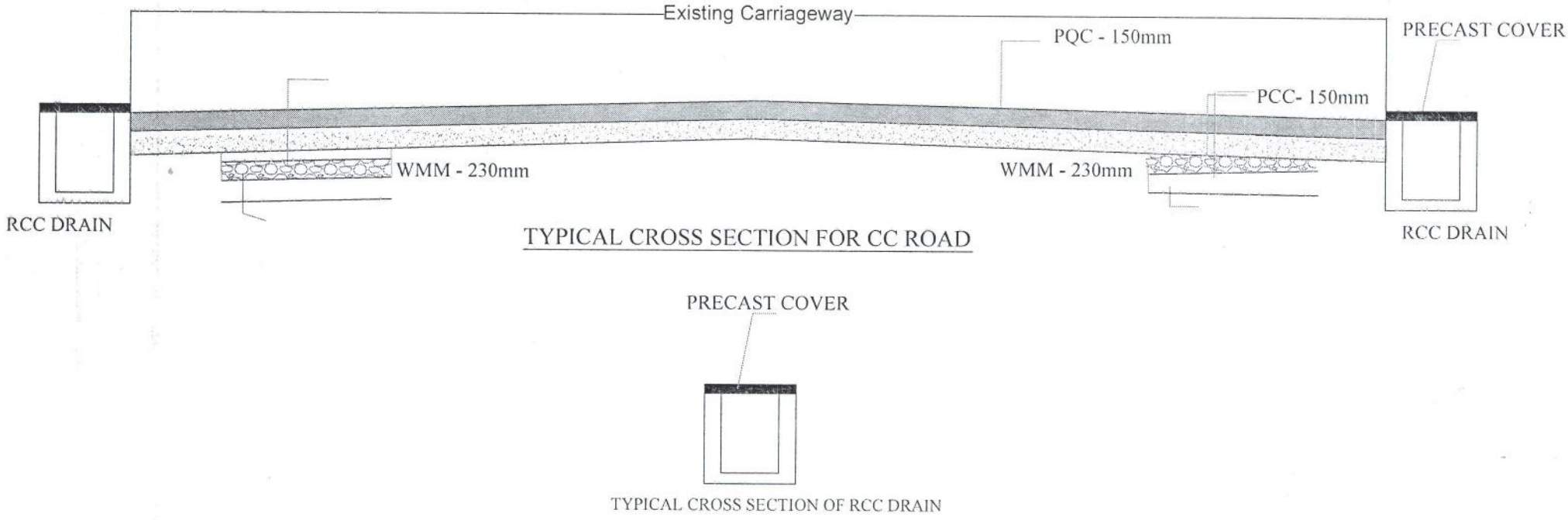
Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
		Rmtr	2.00	18.00			36.00	2203.39	79322.00
33	Providing and fixing Borewell Cap and Clamp Set **Page No. XLVII, Sl No. 17 PWD SR 2018-19**								
		Set	2.00				2.00	1800.00	3600.00
34	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps **PWD SR 2018-19 P. XLI Item No. 35 including of all taxes**								
	12.5 HP 25 Stage	No	2.00				2.00	56414.00	112828.00
35	Providing GI Pipe 50 mm 'B' Class **Page No. XLVII, Sl No. 1 PWD SR 2018-19**								
		m	2.00	260.00			520.00	415.00	215800.00
36	Providing Collar 50 mm **Page No. XLVII, Sl No. 1 PWD SR 2018-19**								
		No	2x45				90.00	180.00	16200.00
37	Providing and fixing 50mm nominal bore gun metal non-return **Page No. XLVIII, Sl No. 16, PWD SR 2018-19**								
		Nos	2.00				2.00	1800.00	3600.00
38	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete.- **for 50mm dia: Page No. 97, Item No. 13.81.3 PWD SR 2018-19**								
	50mm dia	Each	2.00				2.00	222.60	445.00
	Basic Rate	210.00							
	Area Weightage @ 6%	12.60							
	Total	222.60							
39	Providing outdoor panel upto **15.00 HP (PWD SR for 2018-19 Page No. XLVII Sl No. 12)**								
		No.	2.00				2.00	15500.00	31000.00
40	KSRB13-6.3-7 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **65mm nominal bore** including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. **P. No.94 / I. No. 13.38 PWD SR 2018-19**								
		Each	15.00				15.00	2229.18	33438.00
	Basic Rate	2103.00							
	Area Weightage @ 6%	126.18							
	Total	2229.18							
								SUB Total	16791551.30
								GST Charges (12% of estimated cost)	2014986.16
								KRIDL Charges 3+1=4%	671662.05
								DPR Charges (1% of estimated cost)	199000.00
								Project management And Consultancy Charges(1% of estimated cost)	199000.00
	BESCOM Deposit for Borewell	L/S	2	10000.00					20000.00
								Miscellenious and rounding	3800.49
								Total Amount	19900000.00
								RUPEES ONE CORE NINETY NINE LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Technical Sanction
Accorded For Rs.199:00 lakhs only
Head of A/C....P3727....
CER NO :....134..... Dt:.28.10.2019

Assistant Engineer | Assistant Executive Engineer | TA | CE (YNK) | Executive Engineer



TYPICAL CROSS SECTION FOR CC ROAD

TYPICAL CROSS SECTION OF RCC DRAIN

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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